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17. ABSTRACT (MAX. 250 WORDS) Mathematics problems have been specially prepared in accordance with the aims of the Curriculum Center to motivate culturally deprived students. The references in the word problems concern objects familiar to these students. Problem areas included are: Roman numbers, the meaning of numbers, rounding numbers, addition, subtraction, multiplication, division, common fractions, addition and subtraction of fractions, multiplication of fractions, division of decimal fractions, and problems in per cent. All are presented in "story" or word-problem form.							
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MOBILIZATION FOR YOUTH

Curriculum Center
Experimental Draft

BOOK I - FORM B

SUGGESTED PROBLEMS - ROMAN NUMBERS

1. Write the date of the American Revolution in Roman numbers.
2. Ramon noticed an old-fashioned clock on the wall. If the large hand was on VII and small hand was on IX, what time was it?
3. Juan read chapters I, II, III, for homework. He must read through chapter XI by the end of the week. How many chapters remain to be read?
4. Write this year in Roman numbers.
5. Lincoln Center was started in 1962. The cornerstone will say "Built M _____"
(complete writing the Roman numbers).
6. Mary's mother is thirty-five years old. Write the age in both Arabic and Roman numbers.
7. December VII, MCMXLI, was the date that the United States entered World War II.
Write the date in Arabic numbers.
8. Carlos went to a Broadway theater to see a play. He showed his ticket to the guard and he was told to sit in section XIX. What section was that?

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*For use in 2
for 10 & 11*

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9. If Lucy is XIV years old, and her grandmother is VI times as old, how old is her grandmother? (Write the answer in Hindu-Arabic numbers.)
10. The movie "Ben Hur" was made in MCMLXI. What year was that?

BOOK II -- FORM BSUGGESTED PROBLEMS -- THE MEANING OF NUMBERS

1. Last year one million, four hundred fifty six thousand, eight hundred and seven fans attended the Yankee games. Write this number.
2. Project Lunar will cost 8 billion dollars. Write this number. Project Gemini will cost 12 million dollars. Write this number. Project Lunar will cost about how many times the cost of Project Gemini?
3. There are one thousand, four hundred, seventy six pupils in JHS 12, one thousand nine hundred fifty seven pupils in JHS 65, and one thousand nine hundred thirty five pupils in JHS 22. Write the total number of pupils in the three schools.
4. Mrs. Martinez went to the grocery store. She spent \$2.45 on meat, \$1.27 on vegetables, .94 on milk and 95¢ on cookies. How much did Mrs. Martinez spend?
5. Last summer the Olivo family went to California on vacation. They covered 7,638 miles on the round trip. Write out these numbers in words.
6. Only High School graduates can enter the police force. The starting pay for a policeman is \$120 a week. The starting pay for an auto mechanic helper is \$60 a week. A policeman's salary is how many times as much as an auto mechanic helper's pay?

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7. JHS 22 has seven hundred, fifty six pupils in the 7th grade, nine hundred thirty seven pupils in the 8th grade, and eight hundred sixty eight pupils in the 9th grade. What is the total number of pupils in JHS 22?
8. Ali works in the MFY gasoline station. He earns \$1.15 an hour. One week he worked 4 hours on Monday, 3 hours on Tuesday, 3 hours on Wednesday, 2 hours on Thursday, 2 hours on Friday and 7 hours on Saturday. How many hours did Ali work that week? How much money did he earn?
9. Last year the USA spent two billion one hundred forty four million dollars, on foreign aid. This year there were three billion, one hundred sixty five million dollars given out in foreign aid. How much more money was spent this year on foreign aid?
10. Votes counted during the Presidential Election showed that President Kennedy received fifteen million, six hundred thirty six thousand votes. Richard Nixon received fifteen million five hundred thirty eight thousand votes. How many more votes did Kennedy receive?

BOOK III - FORM BSUGGESTED PROBLEMS - ROUNDING NUMBERS

1. The dance teacher of JHS 12 needed 48 red skirts for the dance festival. In round numbers how many skirts should be ordered?
2. At the end of the day, total gas sales at the MFY gas station were \$214.59. What is the total amount to the nearest dollar?
3. John's Bargain Store was having a sale; 3 blouses could be bought for \$5.00. Before the sale these 3 blouses would have cost \$8.94. In round numbers how much did Lucy save?
4. Harry works 15 hours a week on his part-time job as delivery boy for the supermarket. He earns \$1.25 an hour. In round numbers how much does Harry earn in a week?
5. The new "Mets" stadium will hold 72,407 people. If the "Mets" play before a full house, how many people see the game? (Give your answer to the nearest 10,000.)
6. Luis was asked to take care of seating all the 8th grade classes in the gym. There are 12 classes with 33 pupils in each class. There are 5 classes with 31 pupils. How many pupils are there in all? In round numbers how many chairs should Luis order?

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7. Everyday 40,562 containers of milk are delivered to the schools for the school lunch program. How many containers are delivered? (Write your answer to the nearest 10,000)
8. Maria spends 5 hours per day in school. Based on a school year of 188 days, in round numbers how much time does she spend in school in a school year?
9. Bill earns \$5.85 on Monday, \$6.41 on Tuesday, \$8.31 on Wednesday, \$10.41 on Thursday, \$1.00 on Friday. In round numbers how much did he earn in five days?
10. In 10 days, Lucie knits 24" of a scarf. If she knits each day at the same rate of speed and time, how many inches will she knit in 15 days? Calculate answer in round numbers.

BOOKS IV AND V - FORM B

SUGGESTED PROBLEMS - ADDITION

1. The Junior High School musical ran for 5 nights. On Monday 247 people attended. On Tuesday 347, on Wednesday 289, on Thursday 385, and on Friday 487 attended. What was the total attendance for the 5 nights?
2. Class 7-14 planned a class party. Juan and Maria were in charge of the party. They figured that they would spend -
 - .58 for potato chips
 - 1.45 for a cake
 - 1.25 for fruit juice
 - 2.15 for cookiesWhat was the total amount they planned to spend?
3. Shirley works in the MFY Coffee Shop. On one day she was paid \$9.20 and earned \$3.45 in tips. How much money did she make altogether for that day?
4. Mike bought a complete baseball outfit. He paid \$9.65 for the suit, \$1.75 for the baseball bat, and \$3.85 for a pair of sneakers. What was the total cost of the outfit?
5. From a list of textbooks, the 7th grade received 436 Math Books, 328 Social Study Books, and 388 Library Books. How many books did they receive?

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6. Four busses left from Grand Street to go to the Civil Rights Rally in Washington. There were 43 people in the first bus, 47 in the second bus, 39 in the 3rd bus and 43 in the 4th bus. How many people left from Grand Street?
7. Mrs. Rodriguez invited her sister from Puerto Rico to visit New York. She repainted her apartment before the visit. She spent \$9.45 on paint, \$10.75 on wall paper, \$3.50 on paint brushes. What was the total cost?
8. Last year when the Fire Department sponsored its Essay Contest, 237 pupils from JHS 12, 468 pupils from JHS 65, 189 pupils from JHS 22, and 397 pupils from JHS 37 wrote essays. What was the total number of essays written?
9. Jose bought a used bicycle. He spent \$10.15 for two tires, \$1.67 for a basket, \$3.95 for a speedometer and \$1.95 for a horn. How much money did he spend on his bicycle?
10. Peter bought the following:
- | | |
|---------------|--------|
| 5 records for | \$1.00 |
| 10 sodas for | 1.20 |
| 5 books for | 7.25 |
| 4 pens for | 1.80 |
- How much money did he spend altogether?

BOOK VI - FORM B

SUGGESTED PROBLEMS - SUBTRACTION

1. Jose has 39¢ with which to buy a 75¢ book. How much more money does he need?
2. During the 40 minute English period Jennie wrote her composition in 27 minutes.
How much time did Jennie have left to correct her story?
3. Harry had 41¢. He bought a punchball for 26¢. How much money did he have left?
4. Jan and Janice are twins. Their combined age is 28. Their little sister Jane is 7 years younger than the twins' single age. How old is Jane?
5. Mrs. Ramos took her daughter Ramona to the Loew's Commodore. The admission price during the afternoon was 75¢ for adults. If Mrs. Ramos paid \$1.25, how much did she pay for Ramona?
6. Jack had 200 pages in his looseleaf math book. He used 185 pages for homework.
How many pages did he have left?
7. Frankie and his friends went to Coney Island. He had \$3.75 when he left his home. On the way he spent 12¢ for a soda, At Coney Island he spent \$2.15.
How much did he have left?

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8. Class 7⁵ had 780 circulars to distribute in the neighborhood for the school's Annual Arts and Crafts Show. When they returned to school they still had 127. How many circulars did they give out?
9. The Eighth Avenue express train travels 41 miles an hour. The local train travels 25 miles an hour. Does the express train travel about 10 miles, or 15 miles, or 30 miles faster than the local train?
10. Hannah's father was checker at the super-market. He counted 210 cans of beans at the end of the day. If his morning stock of beans was 500, how many cans had been sold?

BOOK VII - FORM B

SUGGESTED PROBLEMS - MULTIPLICATION

1. Linda bought 9 dixie-cups for her friends. If each dixie-cup cost 9¢, what was the total cost of the ice cream?
2. Mickey Mantle was at bat 3 times in every game. How many times was he at bat in 9 games?
3. There are 8 pupils in the special art class. If each pupil drew 4 pictures on a sheet of drawing paper, how many pictures were drawn?
4. Grace sold 6 boxes of greeting cards in a contest to win a trip to Disneyland. Her friend Martha sold 3 times as many. How many boxes of greeting cards did Martha sell?
5. J.H.S. 12 sent 8 pupils to the Sandy Becker T.V. Show. 4 times as many pupils were sent from the other Jr. Highs in the area. How many pupils went to the T.V. show?
6. Clarence let his 7 friends read 7 comic books a piece. How many comic books did he lend?
7. At the Baruch bath-house each of 6 boys on a relay team swam 3 laps in the pool. What was the total number of laps for the team?

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8. There are 5 baseball cards in a set and Carlos bought 5 sets. How many baseball cards did Carlos have?
9. Class 7² has 14 library books. Class 7¹⁰ has 3 times as many. How many library books has class 7¹⁰?
10. What is the cost of 4 "Milky Ways" at 5¢ each?

BOOK VIII - FORM BSUGGESTED PROBLEMS - MULTIPLICATION

1. Maria wanted to make orange-flavored ice cubes for her party. Her refrigerator has 5 ice trays each of which holds 24 cubes. How many orange ice-cubes can Maria make?
2. When Manuel was on his Jr. H.S. basketball team he scored on the average of 14 points a game. After he completed high school he went to play with the New York "Knicks" where his score was 3 times as much as when he played in the Jr. H.S. What is his game score with the "Knicks"?
3. The school week has 5 days. How many days are there in a school term of 40 weeks?
4. Jose spends 5 hours a day in school. How many hours does he spend in school at the end of 5 days?
5. Mrs. Quinones has 6 married daughters. If each daughter has 5 children, how many grandchildren does Mrs. Quinones have?
6. Pedro practices on his "bongo-drums" 55 minutes a day. How many minutes does he practice in 5 days?

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7. Alice banks \$1.75 each week. How much money will she save in 8 weeks?
8. 4 chairs weigh 16 pounds each. Estimate the total weight of the 4 chairs.
9. Class 7¹⁹ received 4 class commendations each day for their clean-up project. At the end of 3 weeks (15 school days) how many class commendations were entered in the conduct book?
10. Susan has 3 dozen spools of cotton in her sewing kit. How many spools does she have?

BOOK IX - FORM BSUGGESTED PROBLEMS - MULTIPLICATION

1. When Denise went to elementary school there were 678 pupils in her school. Now she goes to Jr. H.S. and there are 3 times as many pupils. How many pupils are there in her JR. H.S.?
2. Miss Green, a science teacher prepared 3 test tubes for each student in her eighth grade classes. If she had 127 students how many test tubes were prepared?
3. During mid-term week 634 pupils in the seventh grade took a mid-term test in each of their 4 majors. How many seventh grade tests were corrected that week?
4. There were 5 pupils picked from each Jr. H.S. for the Borough-Wide Chorus. If there are 134 schools in the borough, how many pupils are in the chorus?
5. The parents made orange juice for the school dance. They decided to use cans of frozen juice. If each can makes 6 glasses, how many glasses of juice can be made from 78 cans?
6. If there are 24 boys on 8 teams in Jr. H.S. 22, how many boys are on all the teams?

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7. As a social studies project several teachers took 154 pupils of the seventh grade on a boat trip around Manhattan. All expenses were paid except an 8¢ tax per pupil. What was the total amount of tax?
8. A baseball team bought shoes that cost \$6.75 a pair. If there are 9 men on the squad what is the cost of the shoes?
9. Maria takes 8 art lessons a month. If each lesson costs \$3.50, how much does she pay for lessons monthly?
10. Clare made fudge candy for the school party. She packed 30 pieces in each of 6 boxes. How many pieces of candy did she pack?

BOOK X - FORM B

SUGGESTED PROBLEMS - MULTIPLICATION

1. The supermarket has 14 lanes for groceries and canned goods. If there are 15 shelves in each line, how many shelves are there in the supermarket?
2. A storekeeper sells 50 pounds of candy in one day. If he charges 80¢ a pound for the candy, what was the total amount taken in that day?
3. There are 19 seventh grade classes in Jr. H.S. 65. If each class received 34 social studies text books, how many books were given out to the seventh grade?
4. A bus-load of 37 pupils went to Coney Island on a day's outing. If each pupil spent 75¢, how much money was spent?
5. 86 boys and girls were chosen to go to the Dance Fete in Central Park. If each pupil needed 30¢ carfare, how much money was needed altogether?
6. 700 people can be seated in Jr. H.S. 22's auditorium. The Dramatics Club gave a total of 14 performances there. If all seats were occupied at each performance, what was the total attendance for all the performances?
7. The Leader's Club held the Folk Dance Festival. If 407 parents attended, and the admission price was \$1.25, how much money was collected?

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8. 206 pupils went to the Hayden Planetorium with their science teachers. Lunch and carfare for each pupil was 85¢. What was the total amount of money spent?
9. There are 129 construction workers employed on the new Gouverneur Hospital. If each worker makes \$145 a week, what is the total amount of wages paid for the week?
10. The delivery truck unloaded 24 cartons each containing 36 boxes of beans. How many boxes of beans were unloaded altogether?

BOOK XI - FORM BSUGGESTED PROBLEMS - DIVISION

1. Mr. Santos took his mother, father and grandmother to his sister's wedding in Boston. The cost of the 4 tickets was \$70.28. What was the cost of each ticket?
2. The 8 winners of the "Color-The-Monorail" contest were given a strip of 800 tickets for free rides at Palisades Park. If they shared the tickets equally, how many tickets would each winner receive?
3. The chorus of a JHS is equally divided into soprano, alto, tenor, and bass voices. If there are 144 pupils in the chorus, how many pupils are there in each group?
4. Mrs. Olivo's milk bill last week was \$3.78. How much per day did she spend on milk?
5. Linda bought towels at \$5.22 a half dozen. How much did she pay for each towel?
6. JHS 22 had 162 pupils in the school dance festival. They divided the pupils into groups of 9. How many groups did they have?

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7. A supply of 192 flowers was available to make Easter Baskets. If flowers were needed for each basket, how many baskets were they able to make?
8. LENA received 258 tickets to see the play "Abe Lincoln in Illinois." If they were shared equally among 6 JHS, how many tickets did JHS 22 receive?
9. In the Lillian Wald Houses there is a baby carriage space for every 5 families. If there are 145 families living in one building of the project, how many carriage spaces are there in that building?
10. If 81 movie magazines were divided equally among 9 girls, how many magazines will each girl receive?

BOOK XII - FORM BSUGGESTED PROBLEMS - DIVISION

1. If a man drove his car 800 miles in 16 hours, how many miles did he drive in one hour?
2. A chicken farm turns out 900 eggs and packs these eggs into cartons of one dozen each. How many cartons can be shipped to the market?
3. It took Bernie a total of 52 hours to build his project for the Science Fair. If he worked 4 hours a day, how many days did it take him to finish his project?
4. 15 boxes of ping pong balls arrived at the Afternoon Center. After they were opened a total of 150 balls was added to the center's equipment. How many ping-pong balls were there in each box?
5. There were 2430 Junior High School students taking part in the San Gennaro Parade on Mulberry Street. Eighteen Junior High Schools sent an equal number of students to take part in the parade. How many students were there from each school?
6. Class 8¹⁵ decided to have a class party. The total cost of the party was \$11.90. If there were 34 pupils in the class, and each pupil had to contribute the same amount of money, how much did each pupil give.

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7. Tommy's father is a carpenter who earns \$94.00 per week. He works 40 hours per week. How much money does he earn per hour?
8. Hamilton-Madison Settlement House ordered 165 cup cakes for the Golden Age party. If 55 persons attended the party and each person receive an equal number of cup cakes, how many cakes did each person get?
9. There are 90 space stations orbiting the earth. Each station is equally spaced. A manned satellite was launched to check the stations. After checking all stations, the satellite had travelled a total of 27,000 miles. What was the distance between each station?
10. 432 tops had to be divided
Into 36 boxes it was decided.
How many tops were packed
Into each box that was stacked?
(A space for your answer has been provided.)

BOOK XIII - FORM B

SUGGESTED PROBLEMS - DIVISION

1. The Board of Education bought 145 slides for their playgrounds at a cost of \$1200.00. What is the price of each slide?
2. The Chester family drove to California and back which is a distance of about 6600 miles in 110 travelling hours. How many miles did they travel in one hour?
3. Mr. Brown earns \$3950 per year. If he works 225 days per year how much does he earn in one day?
4. MFY ordered 5328 pencils for a year's work with their educational projects. If there are 144 pencils in a gross, how many gross of pencils did they buy?
5. The PAL spent \$924.60 to buy 230 pairs of sneakers. How much did each pair cost?
6. 42,624 fans attended the POLO GROUNDS to see the Mets beat the Dodgers. As a "gimmick", every 150th person was admitted free. How many fans saw the game "on the house".
7. 56,160 pupils visited the aquarium over a period of 130 days. If there was an equal number of pupils who visited each day what was the daily attendance?

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8. The Educational Alliance summer day camp needed 148 cot sheets for the nursery.
If the total cost of the sheets was \$235.32, how much did each sheet cost?
9. 175 pupils from JHS 22 went to Philharmonic Hall to hear a concert. If they paid a total of \$218.75 for admission, how much did each pupil pay?
10. Last year there were 42,804 subway passes issued to the Lower Eastside Schools.
If there were 188 school days in the year and an equal number of passes used each day, how many passes were used each day.

BOOK XIV - FORM BSUGGESTED PROBLEMS - COMMON FRACTIONS

1. If a pizza is divided into 3 equal parts, what is each part called?
2. $\frac{2}{3}$ of the pupils who attended the Halloween Dance were GO members. What part attended who were not GO members?
3. Mrs. Gonzales went to a butcher shop and bought $\frac{1}{4}$ of a chicken. What part was left?
4. Circle the correct answer: $\frac{6}{8}$ is the same as $\frac{3}{4}$, $\frac{1}{2}$ or $\frac{3}{5}$?
5. Nancy had 75¢. What fraction of a dollar did she have?
6. Mrs. Martinez has a half dollar and a quarter of a dollar. If she wants to divide the money equally among her 3 children, how much does she give each child?
7. If there are 60 minutes in an hour, what fraction of an hour is 15 minutes?
8. 20 dimes is what part of three dollars?
9. If $\frac{3}{5}$ of the class is made up of boys, what part of the class is girls?
10. There are 6 cookies in a package. If Sheila ate 2 of the cookies, what fractional part of the cookie package did she eat? (Reduce to lowest terms.)

BOOK XV - FORM BSUGGESTED PROBLEMS - ADDITION AND SUBTRACTION FRACTIONS

1. Steve rode his bicycle $7\frac{1}{2}$ miles on Monday, $2\frac{1}{4}$ miles on Tuesday and $1\frac{1}{8}$ miles on Wednesday. How far did he ride on the three days?
2. Three boys helped collect old clothing for the "Save the Children Federation." When their packs of clothing were weighed, Carlos had $28\frac{2}{3}$ pounds, Johnnie $19\frac{1}{4}$ pounds, and Paul $49\frac{1}{2}$ pounds. What was the total weight of clothing collected by the three boys?
3. Mrs. Simms bought 2 frying chickens, one weighed $4\frac{3}{8}$ pounds and the other $2\frac{1}{3}$ pounds. How many pounds of chicken did she buy altogether.
4. Lucy needs $1\frac{5}{12}$ yards of dress material. The store clerk will not cut $1\frac{5}{12}$ yards. If she must choose between $1\frac{1}{4}$ yards or $1\frac{3}{4}$ yards which must she choose?
5. In homemaking, Rita opened a 5 pound bag of flour. She used $2\frac{5}{6}$ pounds to bake cakes. How much flour was left?
6. Elsie went shopping. She bought $1\frac{1}{2}$ pounds of meat, $6\frac{3}{4}$ pounds of potatoes, and $2\frac{2}{3}$ pounds of apples. How many pounds of food did she carry home?
7. Richard is $51\frac{1}{2}$ " tall, while Carlos is $48\frac{5}{8}$ " tall. How much taller is Richard?

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8. Mary ate $\frac{1}{2}$ of a candy bar and Carlos ate $\frac{1}{2}$ of the same candy bar. What part of the candy did both children eat?
9. Carlos studied $1\frac{1}{2}$ hour on Tuesday and $\frac{3}{4}$ of an hour on Wednesday. How much longer did he study on Wednesday?
10. On an overnight trip from camp a group of scouts from the Explorers paddled $12\frac{1}{2}$ miles, then hiked $2\frac{3}{4}$ miles and rested. Then they climbed a mountain trail for $1\frac{1}{4}$ miles to a cave. What was the total number of miles they traveled from the camp to the cave?

BOOK XVI - FORM BSUGGESTED PROBLEMS - COMMON FRACTIONS—MULTIPLICATIONS

1. Edwin works in a fruit store. If he sold $2\frac{1}{4}$ quarts of blueberries to each of 8 people during the day, how many quarts of blueberries did he sell?
2. Mr. Brown sold 5 pizzas. The weight of each pie was $1\frac{1}{2}$ pounds. What was the total weight of the pizzas sold?
3. Jackson Park is $3\frac{1}{4}$ blocks long. Central Park is $20\frac{1}{5}$ times as long. How long is Central Park?
4. Linda cut ribbons for her friends. If each ribbon was $\frac{1}{2}$ yard long, how many ribbons could she cut from a roll $6\frac{1}{2}$ yards long?
5. Joyce brought 15 records to her boyfriend's party. During the party $\frac{3}{5}$ of her records were played. How many records were played?
6. Maria's mother bought one dozen apples. She used $\frac{1}{2}$ of them to make apple-sauce. How many apples did she use?
7. Gasoline costs $28\frac{3}{4}$ cents a gallon. How much will $6\frac{1}{2}$ gallons cost?
8. Tom and Jerry split $\frac{1}{4}$ of an apple pie into 2 equal slices. What part of the whole pie did each get?

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9. During David's woodworking periods he made 3 shelves that were each $3 \frac{4}{5}$ feet long. He used up one length of board to make the shelves. What must have been the full length of the board?
10. Danny had an allowance of \$4.50. One day he spent $\frac{4}{9}$ of the money. The next day he spent $\frac{2}{5}$ of what he had left. The following day he spent $\frac{1}{4}$ of what he had left. How much of his allowance remained?

BOOK XVII - FORM BSUGGESTED PROBLEMS - FRACTIONS - DIVISION

1. The trip by subway to Rockaway Beach takes $1\frac{1}{2}$ hours. After riding for an hour, what part of the subway trip has Jose made?
2. Maria made $12\frac{3}{4}$ pounds of cup cakes for a sweet sixteen party. If there were 10 guests at the party how many pounds of cake would each guest receive?
3. Suzette had $2\frac{1}{2}$ pounds of cherries. She gave her friend half of what she had. How much did she give her friend?
4. Bernie bought a $9\frac{2}{3}$ ft. of plastic to make book covers. If he made 8 book covers of the same size from that one piece, what was the length of each book cover?
5. If $6\frac{3}{8}$ pounds of mixed nuts were left to fill boxes holding $1\frac{1}{2}$ pounds each, how many boxes can be filled?
6. Alice has 6 pies to serve at a party. If she gives each person $\frac{1}{3}$ of a pie, how many servings does she have?
7. Mary wants to buy 9 pounds of candy for the class party. She finds that candy comes in $1\frac{1}{2}$ pound bags. How many bags will she have to buy?

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8. The girls in dressmaking bought $6\frac{1}{4}$ yards of material to make curtains. If they paid \$5.75 for it, what is the cost per yard?
9. Beverly baby-sits to earn spending money. Last week she worked a total of $5\frac{1}{2}$ hours and received \$2.75. How much per hour did she earn?
10. Judy needs $2\frac{1}{4}$ feet of ribbon to trim an apron. She has 9 feet of ribbon. How many aprons can she trim?

BOOK XVIII - FORM BSUGGESTED PROBLEMS - DECIMAL FRACTIONSADDITIONS AND SUBTRACTION

1. Melba's mother went shopping. She bought shoes for \$6.95, a blouse for \$3.50 and a hat for \$3.85. How much money did she spend?
2. Mr. Jose, a carpenter is building shelves in a kitchen. He has marked off 3.4 feet, 1.6 feet and .8 feet from a length of board in his shop. How many feet of wood will he use?
3. A long distance runner ran 5.6 miles in the morning and 8.7 miles in the afternoon. What was the total distance covered?
4. In January the total snowfall in New York City was 6.78 inches. In February, the total snowfall was 14.04 inches. How many more inches of snow fell in February than in January?
5. The teacher of class 7¹⁴ asked the class to write a mixed decimal on a sheet of paper. Peter wrote 293.382. Jose wrote 293.38, and Alice wrote 293.377. Who wrote the largest number?
6. When Gary was in the 6th grade, he tested 6.9 on the math test. When he was in the 7th grade, he tested 8.2. By how many points did his math score improve?

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7. Last year the parents of the seventh graders contributed \$89.65 toward the P.T.A. Membership Fund. The parents of the eighth graders contributed \$167.75, and parents of ninth graders gave \$196.45. What was the total amount of money contributed.
8. Anna Maria had $\frac{3}{10}$ of a dollar. Sherrie had $\frac{1}{10}$ and Mary had $\frac{1}{10}$. How much money did they have together?
9. If a baseball glove costs \$7.99, how much change did Marty get from \$10?
10. The North and South sides of the school yard are 129.62 feet long. The East and West sides are 83.57 feet long. If an electrician has to place a wire around the entire yard, how long a wire will he need?

BOOK XX - FORM BSUGGESTED PROBLEMS - DECIMAL FRACTIONDIVISION

1. A fast train traveled a distance of 98.8 miles in 76 minutes. What was the average speed of the train in miles per minute?
2. The Cruz family flew to Puerto Rico, a distance of 1500.5 miles, in 5.5 hours. How many miles did the plane fly in one hour?
3. Ira's father works in a factory where he operates a machine that cuts metal rods into pieces .6 inch long. How many pieces does the machine cut from a rod 12 feet long?
4. Henry wants to get a sweater that costs \$9.75. If he saves \$.75 a week how long will it take him to save enough to buy the sweater?
5. At \$.65 a dozen how many dozens of ice cream sandwiches can Dory buy for her party, if she has \$5.20?
6. A plane made a non-flight of 3600 miles to California. It took the plane 9.6 hours. What was the average speed of the plane in miles per hour?
7. The total cost of "Weekly Readers" for a year for a class of 34 pupils was \$42.50. What was the cost per pupil?

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8. Nancy's uncle owns a farm in Vermont. His prize cow produced 12,342 pounds of milk last year. If one quart of milk weighs 2.2 pounds, how many quarts of milk did this cow produce last year?
9. Lisa was knitting a sweater. If she knitted at a rate of 7.3 inches per day, how long would it take her to knit 29.2 inches?
10. Jerry wanted to make 6 belts of equal size from a roll of plastic leather that is 159.6 inches long. What will be the length of each belt?

BOOK XXII - FORM BSUGGESTED PROBLEMS - PER CENT

1. The 8th grade reported that 100% of the pupils had joined the G.O. If there were 367 pupils in the 8th grade, how many were G.O. members?
2. In Homemaking, Jane learned that a roast may lose 57% of its weight in trimming and cooking. If this is true what percent of the original weight will be left?
3. At the Pitt Street Pool $87\frac{1}{2}\%$ of the boys in the swimming class passed a swimming test at the end of a week. What percent of the boys did not pass the test?
4. Martha was allowed to keep 30% of the money she collected selling greeting cards. Last year her total sales amounted to \$24.00. Estimate how much she kept.
5. Margarite had \$.30. What percent of \$2.00 is this?
6. Clara's mother baked 2 dozen donuts. 16 donuts were jelly donuts. What percent were plain?
7. Out of 20 times at bat Willie Mays made 15 hits. What percent were hits?
8. Of the 250 boys who wanted to join the Service Squad only 15 were chosen. What percent of the boys was chosen?

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9. Neil earned \$150 during the summer. He spent $62\frac{1}{2}\%$ of it on clothes for himself and his little brother. How much money did he spend on clothes?

10. Mrs. Rodriguez bought a bedroom suite. The price of the furniture was \$150. The City Sales Tax is 4%. How much tax did she pay on the furniture?